

WHAT IS CLAIMED IS:

1. A composition comprising: a chimeric polypeptide comprising a peptide or polypeptide targeting moiety specific for endothelial cells linked to an antiangiogenic polypeptide.
2. The composition of claim 1 wherein the targeting moiety binds to integrin on endothelial cells.
3. The composition of claim 2 wherein the targeting moiety comprises RGD, NGR, RGDNGR, or NGRRGD.
4. The composition of claim 2 wherein the targeting moiety binds to $\alpha_v\beta_3/\alpha_v\beta_5$ integrins.
5. The composition of claim 1 wherein the targeting moiety and the anti-angiogenic polypeptide are linked via a peptide bond.
6. The composition of claim 1 wherein the targeting moiety is linked to the amino terminus of the anti-angiogenic polypeptide.
7. The composition of claim 1 wherein the targeting moiety is linked to the carboxy terminus of the antiangiogenic polypeptide.
8. The composition of claim 1 wherein the antiangiogenic polypeptide is endostatin.
9. The composition of claim 8 wherein the amino acid at position 125 in endostatin is not proline.

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19. The method of claim 18 wherein the mammalian cell is a human cell.
20. The method of claim 18 wherein the composition comprises a RGD-
containing peptide linked to endostatin.
21. A therapeutic method comprising: administering to a mammal having
a condition characterized by undesirable endothelial cell proliferation
or migration, a dosage from comprising an effective amount of the
composition of claim 1.
22. The method of claim 21 wherein the condition is cancer, diabetic
retinopathy, macular degeneration, or restenosis.
23. The method of claim 21 wherein the condition is colon cancer.
24. The method of claim 21 wherein the condition is ovarian cancer.
25. The method of claim 21 wherein the dosage form is a sustained
release dosage form.
26. The method of claim 25 wherein the sustained release dosage form
comprises alginate.
27. The method of claim 18 or 21 wherein the antiangiogenic
polypeptide in the composition is kringle 5 of plasminogen,
angiostatin (kringle 1-4 of plasminogen), tumstatin, canstatin, anti-
thrombin fragment or retinal pigment derived factor.
28. The method of claim 18 or 21 wherein the antiangiostatic
polypeptide in the composition is endostatin.

29. The method of claim 28 wherein amino acid at position 125 of endostatin is not a proline.
- 5 30. The method of claim 29 wherein the amino acid at position 125 is alanine, valine, leucine, isoleucine or methionine.
31. The method of claim 18 or 21 wherein the targeting moiety is RGD, NGR, RGDNGR, or NGRRGD.

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